

State of Wisconsin

DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny Secretary

Box 7921 Madison, Wisconsin 53707

November 3, 1989

IN REPLY REFER TO: 4440

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Ms. Linda Martin Project Manager US EPA Region V 5HR-12 230 South Dearborn St. Chicago, IL 60604

OFFICE OF RCRA WASTE MANAGEMENT DIVISION EPA, REGION V

SUBJECT: Johnson Controls - Teutonia Avenue

Dear Ms. Martin:

Enclosed is the Screening Site Inspection Workplan and Sampling Plan for the Johnson Controls - Teutonia Avenue. Before leaving his position as Project Manager for Wisconsin, Daryl Owens requested that WDNR send the Sampling Plans along with the Workplans to EPA in order to give more information about the site. WDNR will continue to send them to you unless you feel that it is unnecessary.

Please contact Chuck Warzecha (608) 267-5063 or Robin Schmidt (608) 267-7569 of my staff with any questions or comments.

Thank You.

Sincerely,

Suzanne Bangert

Superfund Unit Leader

Environmental Response and Repair Section Bureau of Solid and Hazardous Waste Management

cc. Robin Schmidt - SW/3 Chuck Warzecha - SW/3 Margaret Greafe - SED

US EPA RECORDS CENTER REGION 5

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Wisconsin Department of Natural Resources Site Inspection Workplan

Site Name: African Controls Anc. Terrania- Ave ID#WID 000 808 365. Location: 5400 N. Terrania Avenue
Description of Work to be Performed:
Proposed Date of Investigation: November 14, 1989
Non-Responsive
AOHLI / CODOHOI / C
Inspection Priority based on PA or projected HRS score
High: Medium: Low: None:
Waste Types: Solid Liquid Sludge Gas Characteristics: Corrosive Ignitable Volatile
Radioactive Toxic _ Reactive Unknown Other
Facility Description: small research and experimental production facility, it operated one lead-acid battery production line
factory, it operates one lead acre battery production line
Principal Disposal Method: and off- site
Unusual Features: apill of 10,000 gallons of untreated weaterester
01 1110
Status (active, inactive, unknown): active
History of site: it is unknown at this time how long the
facility has been operating; the spill in 1973 in the major concern at this pite
Potential Chemicals Present: lead
FOLENCIAL CHEMICALS FLESENC:
LEVEL OF PROTECTION REQUIRED: A B C D
Field Work Required:
Sampling (check) : Groundwater Surface Water
Sediment Air Soil Waste None Contract Lab Scheduled with M. McCurdy? Yes No
Drilling: (check) State FIT No Drilling
(specs to be submitted in the Site Sampling Plan)
Site Safety Plan submitted (date): Oct. 13, 1989 Site Sampling Plan submitted (date or N/A): Oct. 13, 1989
Scheduled date of Sampling: Nov. 14, 1989
District Contact (sampling leader) Margaret Thank
If no sampling, justification:

Superfund Site Sampling Plan

I. <u>INTRODUCTION</u>

- A. This sampling plan has been developed to document the field procedures for sampling soil that may be potentially contaminated by lead associated with prior activities at the Johnson Controls, Inc. Teutonia Avenue facility. The hazardous waste files of the Southeast District Headquarters of the Wisconsin Department of Natural Resources provide a description of the waste types, operations, and management of the Johnson Controls, Inc. Teutonia Avenue facility.
- B. The inspection priority of this site, based on the Preliminary Assessment, is identified as low. There are some concerns, however, which justify the need to evaluate this site:
 - 1. It is evident that 10,000 gallons of untreated wastewater has been spilled on the grounds of this facility sometime in 1978.
 - 2. The company has no record that any type of clean-up was ever conducted. No record of the incident is present in either the Bureau or SED spills files.

The analytical parameters which have been selected for the site inspection sampling should verify both the existing conditions of the soils.

C. The State of Wisconsin Department of Natural Resources has the authority to conduct an inspection of the Johnson Controls, Inc. - Teutonia Avenue facility and collect samples as part of a Superfund Pre-remedial Site Inspection as specified in Section 104(3)(1) of SARA, 1986 and the State's environmental response and repair program (Section 144.442, Wisconsin Statutes). Johnson Controls is the legal owner of the Johnson Controls, Inc. - Teutonia Avenue facility.

II. BACKGROUND

- A. The site is located at 5400 N. Teutonia Avenue in the NE% Section 36 T8N R21E, City of Milwaukee, Milwaukee County, Wisconsin.
- B. This Johnson Controls, Inc. Teutonia plant is a small research and experimental production facility. It operates one lead-acid battery production line. The plant is located in the City of Milwaukee in an area which is a mix of industrial as well as residential development. Lincoln Creek is approximately one-half mile south of the facility. In 1978 a tank overflowed approximately 10,000 gallons of untreated wastewater containing

high levels of lead. No attempt was made to clean-up the spill.

III. OBJECTIVES:

The objectives of this survey are:

- A. To obtain soil samples adjacent to waste disposal areas and have them analyzed for metals, volatile organics, semi-volatile organics, and pesticides.
- B. To determine whether or not contaminants in subsoils are causing any significant groundwater contamination which may result in the migration of contaminants from the site to neighboring properties and other groundwater users.
- C. To aid in the calculation of the Hazard Ranking Score for the site.
- D. To provide detailed instructions of activities that will take place on site and designate specific tasks to individuals.

IV. EQUIPMENT:

SAFETY EQUIPMENT

HAVE	PACKED	
		air escape packs fire extinguisher first-aid kit HNu/OVA portable eye/face wash tri-gas meter two-way communication system
		PERSONNEL CLOTHING
		Level B boot covers boots (chemical-resistant, steel toe and shank) gloves (latex, disposable) gloves (outer) hard hat masking tape
		safety glasses (or hard hat with face shield) self-contained breathing apparatus (SCBA) splash suit (one piece, chemical-resistant, hooded) Level C air purifying canisters air purifying respirator (full-face mask)
		boot cover

	boots (chemical-resistant, steel toe and shank)
	gloves (latex, disposable)
	gloves (outer)
	hard hat
	masking tape
	safety glasses (or hard hat with face shield)
	splash suit (one-piece, chemical-resistant, hooded)
	Level D
	boot covers
	boots (chemical-resistant, steel toe and shank)
	gloves (latex, disposable)
	gloves (outer)
	hard hat
	masking tape
	safety glasses (or hard hat with face shield)
	splash suit (one-piece, chemical resistant, hooded)
	<u>Optional</u>
	rain suit
	winter wear
	SAMPLING EQUIPMENT
	binocular
	Camera
	coolers
	DNR chain-of-custody seals
	field data sheets/computer disc
	log book/tape recorder/computer
	overhead tarp (with rope and stakes)
	receipts for samples
	sample containers
	site map
	tool kit
	waterproof pens, markers
	<u>Decontamination</u>
	brushes
	buckets
	carboys (empty)
	carboys (with distilled water)
	detergent
	garbage bags
	garden sprayer
	nylon rope
	paper towels
	soap (hand and face)
	sponges
	Soil Sampling
·	auger
	scoop (stainless steel)

		_ spoon (stainless steel)
		_ thin-wall tube corer with cutting top
		tray (stainless steel)
		Sediment Sampling
		nylon rope
		ponar grab sampler
	<u> </u>	scoop (stainless steel)
		spoon (stainless steel)
		thin-wall tube corer with cutting tip and check
		_ valve
		tray (stainless steel)
		Groundwater Sampling
		keys for locked well caps
		_ keys for focked well caps water level measuring device
		_
		sampling and purging device
		_ plastic bags or sheets to place around well
		
		_ extra rope for bailer
		_ transfer containers
		_ sample preservatives
		_ conductivity meter, standards and extra batteries
		_ pH meter, buffers, extra batteries, beakers for
		buffers
		sample preservatives
		Leachate Collection
		shovel for leachate seep sampling
		plastic lining for collection points
		. 1 1
		bailer (possibly dedicated)
		key to lysimeter cap
		Pond, Lagoon and Surface Water Sampling
		pond sampler
		- - -
		_ stream gauge
		Sludge and Waste Pile Sampling
		_ grain_sampler
		_ trowel or scoop
		_ sample containers
		PACKING AND SHIPPING EQUIPMENT
		Central Regional Laboratory sample data report form
		chain-of-custody forms
		EPA chain-of-custody seals
		federal express forms
		ice (in sealed bags)
		sample tags
		tape (strapping and clear)
-		traffic report forms
		vermiculite
		plastic bags
		brandro pago

A. The soil samples will be collected as follows:

Sample 1 thru 8 2-120 ml, wide mouth vials/sample (volatiles) (including duplicate and background) 1-8 oz. jar/sample (metals).

- B. Soil samples will be collected from several locations around the property. The surface sample locations will be determined by both visual observations and soil gas monitoring with a portable photoionization detector (HNu).
- C. Surface samples for volatiles will be obtained utilizing a soil probe to a depth between 0 and 12 inches. This will be done to minimize aeration of the sample. A stainless steel spade will be utilized to obtain all other surface soil samples.
- D. All soil samples for volatiles, semi volatiles, pesticides, and metals will be placed in sample bottles and sealed and labeled upon collection. The soil samples do not require preservation. The soil samples will be placed in a cooler with ice. All soil sample bottles are supplied by the contract lab.
- E. All the sampling equipment will be cleaned before it is brought on-site. Equipment for sampling soil will be cleaned between sampling each monitoring point. Each hand auger, soil probe, sampling spoon, etc. will be cleaned in our contaminant reduction zone with Alconox soap, rinse with tap water and then rinsed three times with deionized distilled water (decon water). Specific decontamination procedures for following subsurface soil sampling equipment is specified for the contractor in the scope of work to investigate contamination.
- F. Sample collection and handling is not anticipated to be a major source of environmental exposure to hazardous chemicals or toxic substances due to what is known about this site. However, individuals handling the samples will be wearing disposable plastic/rubber gloves while the bottles are being filled. Each sample will be tagged with the following information in indelible ink: name of the collector, date and time of collection, place of collection, sample number which uniquely identifies the sample, and type of analysis required.

The chain-of-custody will be documented for all samples taken from the site. The completion of chain-of-custody record forms for the samples will ensure that all samples are handled properly.

G. With the exception of the site owners, their representatives and our/their contractor/consultant, non-team members will not be allowed on the site. In case of rain, sampling may be delayed or may require more time to complete. Sampling will be cancelled and rescheduled in the event of a thunder storm.

VI. LOGISTICS:

- A. Proposed date of inspection November 14, 1989
- B. All of our personnel will arrive at the site and depart from the site in two vehicles. One of the vehicles may have four-wheel drive and will be used to transport most of our field equipment onto the site. Samples used to determine in-field parameters will be taken back to the support zone for analysis. All of our samples will be taken back to our office for final packing and shipment.
- C. List of tasks:
- 1. Calibration of the HNu John Krahling.
- 2. Field notes and documentation on field data forms:
 - Margaret Graef for exclusion zone activities.
 - Chuck Warzecha for support zone activities.
- Initial and periodic site air monitoring (exclusion zone) -John Krahling
- 4. Cleaning and set-up of field equipment etc. All team members.
- 5. Sample withdrawal/sample collection Jim Schmidt
- 6. Sample labeling Chuck Warzecha
- 7. Safety Officer Margaret Graefe

VII. QUALITY CONTROL PROCEDURES:

All equipment will be cleaned before and after being taken out into the field. The cleaning will include all procedures mentioned above and in accordance with the Department's Groundwater Sampling Procedures Guidelines.

VIII. SAMPLING REPORT:

The sampling report will be written by the sampling leader (Margaret Graefe). A copy of the report will be kept in both the Superfund file labeled Johnson Controls, Inc. - Teutonia Avenue and the hazardous waste file for the Johnson Controls, Inc. - Teutonia Avenue. Copies of the report will be sent to Sue Bangert - SW/3.

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